C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

9.2.1.e ESRC Review Checklist

C-A-OPM procedure in which this attachment is used.

9.2.1		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
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Approved: _____ _____
Collider-Accelerator Department Chairman Date

Y. Makdisi

ESRC Review Checklist

Experiment/Sub-System Name or Number: _____
Name of Liaison Physicist: _____ Date: _____

Liaison Engineer/Liaison Physicist must initial all items. Leave no blanks:

Item	Applies	Does Not Apply
Section 1 – Hazardous Chemicals or Materials		
Any use of chemicals, including oils or solvents		
Use of beryllium, lead or asbestos		
Use of explosive materials		
Handling of radioactive materials or sources		
Use of biologically hazardous material		
Any hazardous material being left at C-A		
Transfer or storage of hazardous material		
Future legacy issues, e.g. Be or High ≠ (>Fe) materials		
Section 2 – Environmental		
Non-radioactive emissions or effluents		
Radioactive emissions or effluents		
Hazardous waste generated		
Radioactive waste generated		
Mixed waste generated		
Disposition of any hazardous material after finish		
New underground or above ground storage tanks		
Use of ozone depleting substance		
Any changes to EMS as determined by ECR		
Section 3 – Mechanical Systems		
Pressure or vacuum vessels and windows		
Compressed gas systems / Flammable gas systems		
Material handling devices		
Structures supporting heavy loads		
Section 4 – Physical Hazards		
Surface temperatures less than 0^{o}F or greater than 150^{o}F		
Radio frequency or μwave power greater than 7 W		
Laser power greater than 1 mW		
Use of ultraviolet lamps		
Sound levels generated greater than 80 dBA		
Magnetic fields generated greater than 4 Gauss		
Work in confined spaces		
Oxygen deficiency hazards		
Section 5 – Electrical Systems		
Exposed electrical terminals		
Fusing required		
Emergency shut-off controls		
Work on energized system		
Electrical equipment as a possible ignition source		
Section 6 – Fire Protection/Life Safety		
Combustible material in significant quantities		
Deviations from Life Safety Code		
Change in risk level of fire protection		
Deviations from standard electrical codes		
Section 7 – Training		
Special training requirements		
Required procedures		
Other committee reviews required (e.g. CSC, RSC, ALARA)		